

USDA/ARS Use of NRSP-6 Germplasm in 2003-2004. C. R. Brown

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Units: 8 Foreign varieties for late blight work.

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Units: 13+10 Ver-hjt Project Planting List. Are the *verrucosum* populations in Nuevo Leon state genetically distinct because of their proximity and introgression from *hjeritingii*?

Units: 576 2003 - Original Seedling Selection Project: Does picking the most vigorous seedlings from original seedlots of inbred species cause genetic shifts in the sample composing parents for seed increase?

Units: 77 JAM material for Lisa field for late blight work. Is there useful late blight resistance in *jamesii* native to the USA?

Units: 328(x 2) Pless fen project - second attempt: What is the distribution of the new purple-less mutant allele from *fendleri* among LON species?

Units: 36 Back-Cross planting. Does *commersonii* cytoplasm contribute to the extreme cold hardiness and acclimation in that species?

Units: 1 Grow to see if it has pear shaped fruit. Is this trait genetic or an environmental fluke ?

Units: 72 2003 - Inbreeding Infertility project. Are some populations in the genebank less fecund simply because they were bottlenecked at collection, a problem that could be solved simply by intermating populations?

Units: 107+63 Additions to the Texas Sugar End Planting List. Does *andigena* have sugar-end resistance that would be a useful source for breeding?

Units: 118+2+11 Benchmark for homogeneity/homozygosity via bandyield. Can the yield of random bands per primer be used as a general measure of genetic diversity?

Units: 44 Good TZ - zero germ material for germ testing. Are seeds in the genebank with zero germ dead or are extraordinary germination protocols required?

Units: 36 Additions to TUB planting because of low germ. Does a mini-core collection of species diversity have general utility for evaluation?

Units: 32 + 75 GA drying vs normal GA treatment for germ comparison: If we pre-treat seeds with GA and dry them for shipment to cooperators, will they still get good germ?

Units: 2 Diversity check for transplanted material: Follow up test of wild original seed collections to see if apparent reduced diversity is actually due to seedling selection in the genebank.

Units: 198 2003 - Three-day GA treatment experiment. Would a longer soak in GA help some recalcitrant seedlots to sprout?

Units: 13 Ver-hjt Project Planting List.
Units: 576 2003 - Original Seedling Selection Project:
Units: 77 JAM material for Lisa field for late blight work.
Units: 328 P-less fen project - second attempt:
Units: 36 Back-Cross planting.
Units: 1 Grow to see if it has pear shaped fruit.
Units: 72 2003 - Inbreeding Infertility project.
Units: 107 Additions to the Texas Sugar End Planting List.
Units: 118 Benchmark for homogeneity/homozygosity via bandyield.
Units: 44 Good TZ - zero germ material for germ testing.
Units: 36 Additions to TUB planting because of low germ.
Units: 328 P-less fen project:
Units: 32 GA drying vs normal GA treatment for germ comparison:
Units: 2 FRN DNA project with Alfonso.
Units: 11 Re-planting of FRN-3 and PL-132.
Units: 10 VERGEO follow-up project:
Units: 63 Texas Sugar End Planting List.
Units: 2 Diversity check for transplanted material:
Units: 75 Early GA treatment experiment:
Units: 198 2003 - Three-day GA treatment experiment.

Belknap, Dr. William R.	GENET	USDA, ARS
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Purpose:

High glycoalkaloid potato for transgenic research to reduce glycoalkaloid synthesis

Units: 3 3 tubes of Lenape for tissue culture stock:

Brown, Dr. Chuck R.	GENET	USDA, ARS
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Purpose: Providing all purpose coverage to figure out origin of three Native American of the Pacific Basin potatoes. Also to provide some illustrative wild potato species for a Solanaceae Evolutionary Garden at Heritage College, a local institution of higher education that serves a 20% Native American, 50% Hispanic enrollment.

Units: 214 Additional accessions for Ozette comparison.
Units: 165 Accessions for shock & awe and Ozette comparison.
Units: 3 In vitro tubes of Ozette for comparison work:
Units: 40 Additional accessions for Ozette comparison.
Units: 3 In vitro tubes for comparison work.

Dudek, Nancy Priya	GENET	University of California - Berkeley
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Units: 36 Gene Expression work:
Units: 3 Plaidsted breeding stock seeds for Gene Expression work:

Novy, Dr. Richard	PATHO	USDA, ARS
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Aberdeen	Idaho	83210-0530
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Purpose:		

Germplasm enrichment for foliar and tuber late blight resistance, in cooperation with Jeff Miller U of Idaho. Covered by previous grant from CGC?

Units: 33 Breeding for foliar and tuber blight resistance.
Units: 2 Breeding for foliar and tuber blight resistance.

Spooner, Dr. David	TAXON	University of Wisconsin
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Purpose: Taxon verification

Units: 2 Accession for TAXON study:
Units: 11 Accession for TAXON study:
Units: 2 Accession for TAXON study:
Units: 2 Problem accessions for re-identification:

Wanner, Leslie	BREED	USDA, ARS - Vegetable Laboratory
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Purpose: Disease resistance studies, attempting to obtain resistant and susceptible exemplars for common scab especially

Units: 31 Breeding for broad spectrum disease resistance.

**** = INFORMATION NOT PROVIDED BY COOPERATOR